

## AMENDMENTS TO THE CLAIMS

Claims 1 and 2 (cancelled)

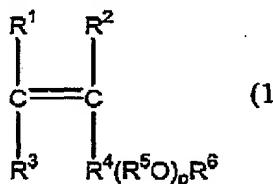
Claim 3 (previously amended)

3. A cement additive comprising:

- (a) a polycarboxylic acid copolymer and/or a salt thereof and a polyalkylene glycol compound, wherein said polycarboxylic acid copolymer contains at least one species of copolymer derived from at least an unsaturated polyalkylene glycol ether monomer (A) and an unsaturated mono- or dicarboxylic acid monomer (B) as its monomer component; or
- (b) a polycarboxylic acid copolymer and/or a salt thereof and a polyalkylene glycol compound, wherein said polycarboxylic acid copolymer contains at least one species of copolymer derived from at least an unsaturated polyalkylene glycol ether monomer (A) and an unsaturated mono- or dicarboxylic acid monomer (B) as its monomer component and said polycarboxylic acid copolymer is additionally derived from an unsaturated polyalkylene glycol ester monomer (C) and/or monomer (D), which is copolymerizable with monomers (A) and (B), or with monomers (A), (B) and (C);

wherein for (a) and (b),

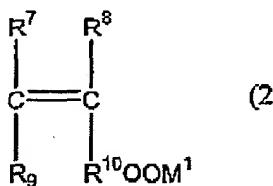
the monomer (A) is a compound according to general formula (1)



wherein  $\text{R}^1$ ,  $\text{R}^2$  and  $\text{R}^3$  are each independently hydrogen or methyl, provided that not all are methyl;  $\text{R}^4$  is  $-\text{CH}_2\text{O}-$ ,  $-(\text{CH}_2)_2\text{O}-$ ,  $-\text{C}(\text{CH}_3)_2\text{O}-$  or  $-\text{O}-$ ; the total carbon number of  $\text{R}^1$ ,  $\text{R}^2$ ,  $\text{R}^3$  and  $\text{R}^4$  is 3;  $\text{R}^5\text{O}$  is one or more species of  $\text{C}_2\text{-C}_4$  oxyalkylene groups, and, in the case of two or more species, is optionally block or random;  $\text{R}^6$  is hydrogen or a  $\text{C}_1\text{-C}_{22}$  alkyl, phenyl or  $\text{C}_1\text{-C}_{18}$

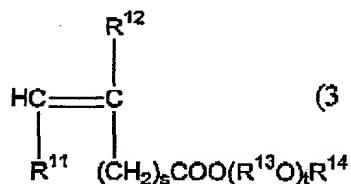
alkylphenyl group; p is an integer from on average 1 to 100,

the monomer (B) is a compound according to general formula (2):



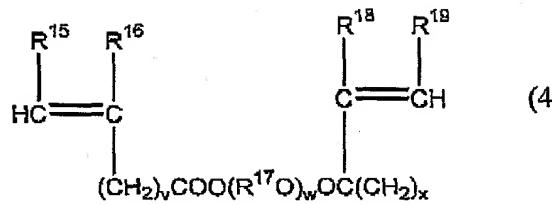
wherein  $\text{R}^7$  and  $\text{R}^8$  are each independently hydrogen or methyl;  $\text{R}^9$  is hydrogen, methyl or  $-(\text{CH}_2)_q\text{COOM}^2$ ;  $\text{R}^{10}$  is  $-(\text{CH}_2)_r$ ; q and r are each independently an integer from 0 to 2;  $\text{M}^1$  and  $\text{M}^2$  are a monovalent metal, a divalent metal, ammonium or an organic amine;

the monomer (C) is a compound according to general formula (3):



wherein  $\text{R}^{11}$  and  $\text{R}^{12}$  are each independently hydrogen, methyl or  $(\text{CH}_2)_u\text{COOM}^3$ , u is an integer from 0 to 2,  $\text{M}^3$  is a monovalent metal, a divalent metal, ammonium or an organic amine;  $\text{R}^{13}\text{O}$  is one or more species of  $\text{C}_2\text{-C}_4$  oxyalkylene groups, and, in the case of two or more species, is optionally block or random;  $\text{R}^{14}$  is a  $\text{C}_1\text{-C}_{22}$  hydrogen or an alkyl, phenyl or  $\text{C}_1\text{-C}_{22}$  alkylphenyl group; s is an integer from 0 to 2; t is an integer an average from 1 to 300; and

the monomer (D) is a compound according to the following general formula (4):



wherein  $R^{15}$ ,  $R^{16}$ ,  $R^{18}$  and  $R^{19}$  are each independently hydrogen or methyl, provided that not all are methyl;  $R^{17}O$  is one or more species of  $C_2-C_4$  oxyalkylene groups, and in the case of two or more species, is optionally block or random;  $w$  is an integer an average from 1 to 300;  $v$  and  $x$  are each independently an integer from 0 to 2.

**Claims 4 and 5 (cancelled)**

**Claim 6 (previously amended)**

6. A cement additive according to claim 3, containing 100 weight parts of the polycarboxylic acid type copolymer and 10-50 weight parts of the polyalkylene glycol derivative in the mixing proportion.

**Claim 7 (previously amended)**

7. A cement additive according to claim 3, wherein the amount used in a cementitious composition is such that the amount of polycarboxylic acid type copolymer cement is 0.05-1.0% by weight based on the weight of cement, and the amount of the polyalkylene glycol derivative to cement is 0.005-0.5% by weight based on the weight of cement.

**Claim 8 (previously amended)**

8. A high strength concrete mix, comprising a cement mix and a cement additive according to claim 3...

**Claim 9 (previously amended)**

9. A high strength concrete mix for the production of articles by steam curing, comprising a cement mix and a cement additive according to claim 3.

**Claim 10 (cancelled)**